



3dm3p	VPKMSGLS	OTVILALIFL	POTRAGVFE	QIHSFGPGP	GPAGPSPCS	ARL.....PC	RLFFRVCLKP	GLSEEAESP	QALGAL SAR	GPVYT	91
moused113p	checks	sum	LS	QTLILAF	LL	QALPAGVFE	QIHSFGPGP	GLTRPSPCN	ARG.....PC	RLFFRVCLKP	97
hdel1alp	GSRCALALAV	LSALLCOVW	.....SSGVFE	UKLQDFVNKK	GLLGUNCCR	GGAGPPPCAC	RTFFRVCLKH	YQASVSPPEP	QTYGSAVTPV	LGWDS	91
w80813	maa	agrsagwa1	1..llvalwq	qraagsgvfq	lqldefiner	gv1.....	asgrpcepge	ntffrvclkh	fqavvspg	lgtns	88
3dm3p	EQPGAPAPDL	PLPDGLLOVP	FRDAMPGTFS	FLTETAREEL	GDQIGGPAW	..SLLARVAG	RRRLAAGGPW	ARLQVAGAW	ELRCSYRARC	EPPAVGTACT	193
moused113p	EHPGESAAL	PLPDGLVRVP	FRDAMPGTFS	QMETAREQL	GEHAGGPAW	..NLLARVAG	RRRLAAGGPW	ARDVORTETW	ELHFSYRARC	EPPAVGAACA	199
hdel1alp	FSLPDGGGAD	SAFSNPTRFP	FGFTMPGTFS	LIIEALHTDS	PDDLATEN	..PERLISRLAT	QRHLTVGEEM	SQDLUSSERT	QLKYSYRVC	DEHYVGECS	194
w80813	favrdssgg	g..rnp1q1b	fnftwpgtfs	liiealua.p	addlrpeal	p	qgsllavgnw	tlldgstlt	rllysvvnc	sdnyvgdncc	190
3dm3p	RSAP.....S	RCGPGLRPCA	PLEDE.....S	VORAGSPER	GFQEPGEOR	QLEGMTGPLIC	TVPVSTSSCL	SP	.....	RGPSS	261
moused113p	RSAP.....S	RCGPGLRPCT	PFPECEAPS	VORPGSPER	GYCEPDECR	QLEGMTGPLIC	TVPVSTSSCL	NS	.....	RVPGP	217
hdel1alp	RDDAFGHFTC	GERGEKVCNP	GWKGPVCTEP	ICLPQDEQH	GFQDKPECK	CRVNGCRYC	DECIRVPGCL	HGTCQPPWQC	NCQEGWGLF	CNODLNYCTH	299
w80813	mdhfhgyc	qpdgrlsc1p	gwtgavcqqp	idlsgheq	gvskbaec1	grpawgn1c	neciphngc	hgctstpwc	tcdegwglf	cdqdlncvcth	295
3dm3p	ATTGQLVPGP	GP	.....	CDGNPCAN	GGSCSETPRS	FECTCPRGFY	GLRCEVSGVIT	CADGPCFNNG	LQVGGADPDS	ATYCHCPPGF	346
moused113p	ASTGQLPGP	GP	.....	CDGNPCAN	GGSCSETSGS	FECACPGRFY	GLRCEVSGVIT	CADGPCFNNG	LQVGGEDPDS	XWVCHCPPGF	356
hdel1alp	NGATQNTGQ	GSYTCSRPG	YTGATCELGI	DECDSPCKN	GGSDTDLENS	YSCTCPRGFY	GKICELSAMIT	CADGPCFNNG	RCSDSPD	GG	402
w80813	ngatcsnsgq	rsytctcrpg	ytgvdcele1	secdsnpgrn	ggsckdqedg	yhd1cpgwv	g1hchgst1s	cadspcfnng	sgrenq	ga	399
3dm3p	EKRVDRCSLQ	PORNGQLCLD	LGHALRCRCR	AGFAPRCEH	DLDDCAGRAC	ANGGTQVEGG	GAHRSOALG	FGGRDQREHA	DPCAARPC	AHGGRCYAHF	447
moused113p	EKRVDRCSLQ	PQNGGLCLD	LGAXXRCRCR	AGFAPRCEH	DLDDCAGRAC	ANGGTQVEGG	GSRRCSCALG	FGGRDQREHA	DPASRPC	AHGGRCYAHF	457
hdel1alp	EKKIDYCS	PCSNAGKQND	LGDAYLCRCQ	AGFSRHCDD	NWDDCASSPC	ANGGTQRCGV	NDFSCTOPPG	YTGRCNSAPV	S..RCEHAPC	HNGATCHE..	503
w80813	ekkvdratsn	bdangqdc1n	rgpsmrcrcn	parttutycel	hvsdcarnpc	ahggtchdle	ng1mctcpag	fsgrncevft	slfaccasspc	fnrateytdl	504

Fig. 1A

3dm3p	VCACAPGYNG	ARCEFPV	HPDGA	SALPA	APGLRPGDP	QRYLLPPALG	LLMAAGVAGA	ALLVIVRRR	GHSQDAGSRL	LAGTPEPSVH	ALPDALNNL	543
moused113p	VCACAPGYNG	VRCEFAV	RPDGA	DAVPA	APGLROADP	QRFLPPALG	LLMAAGTAGA	ALLVIVRRR	GPGQDTGTRL	LSGTREPSVH	TLPDALNNL	553
hdel1alp	VCECARGYGG	PNQFLPEL	PPGPA	VVDLT	EKLEGQGGP	PIWAVCAGVI	LLMLLLGC	AAVWCVRLR	LQHR	PPADPCR	GETETMNNLA	NCORE
w80813	VCACAPGYNG	VRCEFAV	RPDGA	DAVPA	APGLRPGDP	QRYLLPPALG	LLMAAGVAGA	ALLVIVRRR	GHSQDAGSRL	LAGTPEPSVH	ALPDALNNL	577
3dm3p	...	...	...	...	...	...	...	...	...	...	...	583
moused113p	...	...	...	...	...	...	...	...	...	...	...	593
hdel1alp	...	...	...	...	...	...	...	...	...	...	...	703
w80813	...	...	...	...	...	...	...	...	...	...	...	665
3dm3p	...	...	...	...	...	...	...	...	...	...	...	583
moused113p	...	...	...	...	...	...	...	...	...	...	...	593
hdel1alp	...	...	...	...	...	...	...	...	...	...	...	703
w80813	...	...	...	...	...	...	...	...	...	...	...	665
3dm3p	...	...	...	...	...	...	...	...	...	...	...	583
moused113p	...	...	...	...	...	...	...	...	...	...	...	593
hdel1alp	...	...	...	...	...	...	...	...	...	...	...	703
w80813	...	...	...	...	...	...	...	...	...	...	...	665

Fig. 1B

3md3	ATGATCTCC	CACGATGTC	GGGATCTCT	TCGAGAGCTG	TGATCTTAC	GCTCATTTTC	CTGGCCGAGA	QACGGCCGAG	TGGGCTCTTC	GAGCTGCAGA	TCCAC	105
moused113n	ATGATCTCTC	TGCAGTGTG	...TCCGCTT	TCGAGAGCTG	TGATCTTAC	...TTCCTTC	CTGGCCGAGA	QACGGCCGAG	TGGGCTCTTC	GAGCTGCAGA	TTCAT	99
hdel1aln	.....	ATGG	GAGTGGTGC	GGGATCTCT	TGATCTTAC	CTGGCCGAGA	CTGGCCGAGA	QACGGCCGAG	TGGGCTCTTC	GAGCTGCAGA	TGCAG	90
w80813n	ATGATCTCTC	CGTCCGAG	GGGATCTCT	TCGAGAGCTG	TGATCTTAC	CTGGCCGAGA	CTGGCCGAGA	QACGGCCGAG	TGGGCTCTTC	GAGCTGCAGA	TGCAG	105
3md3	TCCTTCGGGC	CGGATCAGG	CCCTGGGGCC	CCGAGGTCTC	CTTGAAGCA	.....	CCGAG	GGGATCTCT	CTGGCCGAGA	QACGGCCGAG	TGCAG	195
moused113n	TCCTTCGGGC	CAGGCTAGG	CCCTGGGGCC	CCGAGGTCTC	CTTGAAGCA	.....	CCGAG	GGGATCTCT	CTGGCCGAGA	QACGGCCGAG	TGCAG	189
hdel1aln	GAGTTCGTCA	ACAAGAAGGG	CTTCTGGGG	AACGCAAGT	CTTGAAGCA	.....	CCGAG	GGGATCTCT	CTGGCCGAGA	QACGGCCGAG	TGCAG	195
w80813n	GAGTTCGTCA	ACAAGAAGGG	CTTCTGGGG	AACGCAAGT	CTTGAAGCA	.....	CCGAG	GGGATCTCT	CTGGCCGAGA	QACGGCCGAG	TGCAG	189
3md3	CTTGGGCTCT	QAGAGAGG	GGGATCTCT	TCGAGAGCTG	TGATCTTAC	GCTCATTTTC	CTGGCCGAGA	QACGGCCGAG	TGGGCTCTTC	GAGCTGCAGA	TCCAC	300
moused113n	CTTGGGCTCT	QAGAGAGG	GGGATCTCT	TCGAGAGCTG	TGATCTTAC	GCTCATTTTC	CTGGCCGAGA	QACGGCCGAG	TGGGCTCTTC	GAGCTGCAGA	TCCAC	294
hdel1aln	CTTGGGCTCT	QAGAGAGG	GGGATCTCT	TCGAGAGCTG	TGATCTTAC	GCTCATTTTC	CTGGCCGAGA	QACGGCCGAG	TGGGCTCTTC	GAGCTGCAGA	TCCAC	300
w80813n	CTTGGGCTCT	QAGAGAGG	GGGATCTCT	TCGAGAGCTG	TGATCTTAC	GCTCATTTTC	CTGGCCGAGA	QACGGCCGAG	TGGGCTCTTC	GAGCTGCAGA	TCCAC	289
3md3	CTTGGGCTCT	QAGAGAGG	GGGATCTCT	TCGAGAGCTG	TGATCTTAC	GCTCATTTTC	CTGGCCGAGA	QACGGCCGAG	TGGGCTCTTC	GAGCTGCAGA	TCCAC	405
moused113n	CTTGGGCTCT	QAGAGAGG	GGGATCTCT	TCGAGAGCTG	TGATCTTAC	GCTCATTTTC	CTGGCCGAGA	QACGGCCGAG	TGGGCTCTTC	GAGCTGCAGA	TCCAC	399
hdel1aln	CTTGGGCTCT	QAGAGAGG	GGGATCTCT	TCGAGAGCTG	TGATCTTAC	GCTCATTTTC	CTGGCCGAGA	QACGGCCGAG	TGGGCTCTTC	GAGCTGCAGA	TCCAC	405
w80813n	CTTGGGCTCT	QAGAGAGG	GGGATCTCT	TCGAGAGCTG	TGATCTTAC	GCTCATTTTC	CTGGCCGAGA	QACGGCCGAG	TGGGCTCTTC	GAGCTGCAGA	TCCAC	387
3md3	CTTGGGCTCT	QAGAGAGG	GGGATCTCT	TCGAGAGCTG	TGATCTTAC	GCTCATTTTC	CTGGCCGAGA	QACGGCCGAG	TGGGCTCTTC	GAGCTGCAGA	TCCAC	501
moused113n	CTTGGGCTCT	QAGAGAGG	GGGATCTCT	TCGAGAGCTG	TGATCTTAC	GCTCATTTTC	CTGGCCGAGA	QACGGCCGAG	TGGGCTCTTC	GAGCTGCAGA	TCCAC	495
hdel1aln	CTTGGGCTCT	QAGAGAGG	GGGATCTCT	TCGAGAGCTG	TGATCTTAC	GCTCATTTTC	CTGGCCGAGA	QACGGCCGAG	TGGGCTCTTC	GAGCTGCAGA	TCCAC	504
w80813n	CTTGGGCTCT	QAGAGAGG	GGGATCTCT	TCGAGAGCTG	TGATCTTAC	GCTCATTTTC	CTGGCCGAGA	QACGGCCGAG	TGGGCTCTTC	GAGCTGCAGA	TCCAC	492
3md3	TCGAGAGCTG	CTTCTCTGTA	CCGCGCGGGC	CCGAGGTCTC	CTTGAAGCA	.....	CCGAG	GGGATCTCT	CTGGCCGAGA	QACGGCCGAG	TGCAG	606
moused113n	TCGAGAGCTG	CTTCTCTGTA	CCGCGCGGGC	CCGAGGTCTC	CTTGAAGCA	.....	CCGAG	GGGATCTCT	CTGGCCGAGA	QACGGCCGAG	TGCAG	600
hdel1aln	TCGAGAGCTG	CTTCTCTGTA	CCGCGCGGGC	CCGAGGTCTC	CTTGAAGCA	.....	CCGAG	GGGATCTCT	CTGGCCGAGA	QACGGCCGAG	TGCAG	609
w80813n	TCGAGAGCTG	CTTCTCTGTA	CCGCGCGGGC	CCGAGGTCTC	CTTGAAGCA	.....	CCGAG	GGGATCTCT	CTGGCCGAGA	QACGGCCGAG	TGCAG	597

Fig. 3A

3md3	GGAGTGGGCG	CTTGGGACCC	GCTG	.....A	TGGGTGTGCG	GAGCAGGCTG	CAGCCCTGAG	CATGGCTTCT	GTGAA	684
moused113n	GGAGTGGGAC	CTTGGGACCC	ATTG	.....C	CAGACGATG	GAGCAGGCTG	CAGCCCTGAG	CATGGCTTCT	GTGAA	690
hdel1aln	TGTGGGGAGC	GTTGGGAGAA	AGTGTGCAAC	CTTGGGCTGGA	AAGGGCCCTA	CTGCACAGAG	CGGATGTGCC	TGATGAGCAG	CATGGCTTCT	714
w80813n	tgcgagacag	atgcgaact	gtcctgctg	gtcctgctg	ctggggaata	ttgccaacab	cdtatctgtc	tttgggagctg	aatggcctact	702
3md3	GAGCCCGGTG	AATGCCGATG	CCTAGAGGGC	TGGACTGGAC	CCCTCTGCAC	GGTCCCTGTC	TCCACACGCA	GCTGCTCTAG	.....	765
moused113n	GAGCCCGGTG	AATGCCGATG	CCTAGAGGGC	TGGACTGGAC	CCCTCTGCAC	GGTCCCTGTC	TCCACACGCA	GCTGCTCTAG	.....	771
hdel1aln	AATCCAGGGG	AATGCCGATG	CCTAGAGGGC	TGGACTGGAC	CCCTCTGCAC	GGTCCCTGTC	TCCACACGCA	GCTGCTCTAG	.....	819
w80813n	agccagacab	adugcctctg	cgccacagcc	tggcagggcc	ggctgtgtab	ggaatgcatc	cccaacatg	gctgtggcca	gggacactgc	807
3md3	.....	.....	.....	CCG	AGGGGCGGT	CCCTCTGTAC	CACGCGATGC	CTTGTGTC	.....	804
moused113n	.....	.....	.....	TCC	AGGGTCTGT	CTTGTGTC	CACGCGATGC	CTTGTGTC	.....	810
hdel1aln	TGCAACTGCC	AGGAAGCTG	GGGGGGCTT	TTCTGCAACC	AGGAAGCTG	CTTGTGTC	CACGCGATGC	CTTGTGTC	.....	924
w80813n	tgtacttgtg	atgaggctg	gggaggctg	ttttgtgac	agatgtgaa	ctactgacc	cacgactcc	datgagaa	tggtccaaca	912
3md3	.....	.....	.....	.....	CTTGGG	CTTGGGCTT	GTGAGGGGAA	CCGCTGTGCG	AATGGAGGCA	855
moused113n	.....	.....	.....	.....	CTTGGG	CTTGGGCTT	GTGAGGGGAA	CCGCTGTGCG	AATGGAGGCA	861
hdel1aln	CAGGGGAGCT	ACACTTGTCT	TTGGGGCTT	TTGGGGCTT	CTTGGG	CTTGGGCTT	GTGAGGGGAA	CCGCTGTGCG	AATGGAGGCA	1029
w80813n	cagcgaagct	acactgtgac	ctgtcgcca	ggctacactg	gtgtgactg	tgaggtgag	gtcagcgagt	ccgctgtgctg	aatggagggca	1017
3md3	AGTGAGACAC	CCAGGTCTTT	TGAATGCAAC	TGCCCCGCTG	GGTTCACGG	GCTGGGCTGT	GAGGTGAGCG	TGGAGATGGA	CCCTGCTTCA	960
moused113n	AGTGAGACCT	CTGGCTCTTT	TGAATGCAAC	TGCCCCGCTG	GGTTCACGG	GCTGGGCTGT	GAGGTGAGCG	TGGAGATGGA	CCCTGCTTCA	966
hdel1aln	ACGGATCTCG	AGAACAGCTA	CTCCTGTACG	TGCCCCGCTG	GGTTCACGG	GCTGGGCTGT	GAGGTGAGCG	TGGAGATGGA	CCCTGCTTCA	1134
w80813n	agggaccagg	aggatggcta	cdactgctg	tgctctgctg	ggtactatag	cdactatag	gagacagga	ccctgagctg	ccctgactcc	1122
3md3	GGCTTGTGTG	TGGGGGTGTC	AGACCTGTAC	TGTGCTTACA	TCTGCACTG	CCCACTGTGT	TTCAAGGCT	CCAACCTGTG	GAAGAGGCTG	1065
moused113n	GGCTTGTGTG	TGGGGGTGTC	AGACCTGTAC	TGTGCTTACA	TCTGCACTG	CCCACTGTGT	TTCAAGGCT	CCAACCTGTG	GAAGAGGCTG	1071
hdel1aln	GGTGGGTGCT	CAGACAGCCC	CGA...TGGA	G...TGGA	G...TGGA	G...TGGA	G...TGGA	G...TGGA	G...TGGA	1233
w80813n	ggctctgctg	gggagggcaa	caa...gggg	ggcgaactatg	cttgggagatg	tccggcgaac	ttcgacgggct	ccaactgctg	gaagaaagtg	1224

Fig. 3B

3md3	CAACCAATGCC	GGAATGGGG	AGCTTGCTG	GACCTTGGG	AGGCGTGGG	CGGCGGGG	TGCGGGTCC	TGCGTGGAG	CAAGACCTGG	AGGAC	1170
moused113n	CAACCAATGTC	AGAAATGGGG	AGCTTGCTG	GACCTTGGG	AGGCGTGGG	CGGCGGGG	TGCGGGTCC	TGCGTGGAG	CAAGACCTGG	AGGAC	1176
hdel1aln	TCACCAATGTC	CAAGTGGGG	AGCTTGCTG	GACCTTGGG	AGGCGTGGG	CGGCGGGG	TGCGGGTCC	TGCGTGGAG	CAAGACCTGG	AGGAC	1338
w80813n	CAACCAATGTC	CAAGTGGGG	AGCTTGCTG	GACCTTGGG	AGGCGTGGG	CGGCGGGG	TGCGGGTCC	TGCGTGGAG	CAAGACCTGG	AGGAC	1329
3md3	TGCGGGTGGC	AGCTTGCTG	AGGCGTGGG	AGGCGTGGG	AGGCGTGGG	AGGCGTGGG	AGGCGTGGG	AGGCGTGGG	AGGCGTGGG	AGGCG	1269
moused113n	TGCGGGTGGC	AGCTTGCTG	AGGCGTGGG	AGGCGTGGG	AGGCGTGGG	AGGCGTGGG	AGGCGTGGG	AGGCGTGGG	AGGCGTGGG	AGGCG	1275
hdel1aln	TGCGGGTGGC	AGCTTGCTG	AGGCGTGGG	AGGCGTGGG	AGGCGTGGG	AGGCGTGGG	AGGCGTGGG	AGGCGTGGG	AGGCGTGGG	AGGCG	1437
w80813n	TGCGGGTGGC	AGCTTGCTG	AGGCGTGGG	AGGCGTGGG	AGGCGTGGG	AGGCGTGGG	AGGCGTGGG	AGGCGTGGG	AGGCGTGGG	AGGCG	1434
3md3	CAACCAATGCC	GGAATGGGG	AGCTTGCTG	GACCTTGGG	AGGCGTGGG	CGGCGGGG	TGCGGGTCC	TGCGTGGAG	CAAGACCTGG	AGGAC	1368
moused113n	CAACCAATGTC	AGAAATGGGG	AGCTTGCTG	GACCTTGGG	AGGCGTGGG	CGGCGGGG	TGCGGGTCC	TGCGTGGAG	CAAGACCTGG	AGGAC	1374
hdel1aln	TCACCAATGTC	CAAGTGGGG	AGCTTGCTG	GACCTTGGG	AGGCGTGGG	CGGCGGGG	TGCGGGTCC	TGCGTGGAG	CAAGACCTGG	AGGAC	1536
w80813n	CAACCAATGTC	CAAGTGGGG	AGCTTGCTG	GACCTTGGG	AGGCGTGGG	CGGCGGGG	TGCGGGTCC	TGCGTGGAG	CAAGACCTGG	AGGAC	1539
3md3	CAACCAATGCC	GGAATGGGG	AGCTTGCTG	GACCTTGGG	AGGCGTGGG	CGGCGGGG	TGCGGGTCC	TGCGTGGAG	CAAGACCTGG	AGGAC	1473
moused113n	CAACCAATGTC	AGAAATGGGG	AGCTTGCTG	GACCTTGGG	AGGCGTGGG	CGGCGGGG	TGCGGGTCC	TGCGTGGAG	CAAGACCTGG	AGGAC	1479
hdel1aln	TCACCAATGTC	CAAGTGGGG	AGCTTGCTG	GACCTTGGG	AGGCGTGGG	CGGCGGGG	TGCGGGTCC	TGCGTGGAG	CAAGACCTGG	AGGAC	1640
w80813n	CAACCAATGTC	CAAGTGGGG	AGCTTGCTG	GACCTTGGG	AGGCGTGGG	CGGCGGGG	TGCGGGTCC	TGCGTGGAG	CAAGACCTGG	AGGAC	1592
3md3	CAACCAATGCC	GGAATGGGG	AGCTTGCTG	GACCTTGGG	AGGCGTGGG	CGGCGGGG	TGCGGGTCC	TGCGTGGAG	CAAGACCTGG	AGGAC	1578
moused113n	CAACCAATGTC	AGAAATGGGG	AGCTTGCTG	GACCTTGGG	AGGCGTGGG	CGGCGGGG	TGCGGGTCC	TGCGTGGAG	CAAGACCTGG	AGGAC	1584
hdel1aln	TCACCAATGTC	CAAGTGGGG	AGCTTGCTG	GACCTTGGG	AGGCGTGGG	CGGCGGGG	TGCGGGTCC	TGCGTGGAG	CAAGACCTGG	AGGAC	1745
w80813n	CAACCAATGTC	CAAGTGGGG	AGCTTGCTG	GACCTTGGG	AGGCGTGGG	CGGCGGGG	TGCGGGTCC	TGCGTGGAG	CAAGACCTGG	AGGAC	1688
3md3	CAACCAATGCC	GGAATGGGG	AGCTTGCTG	GACCTTGGG	AGGCGTGGG	CGGCGGGG	TGCGGGTCC	TGCGTGGAG	CAAGACCTGG	AGGAC	1683
moused113n	CAACCAATGTC	AGAAATGGGG	AGCTTGCTG	GACCTTGGG	AGGCGTGGG	CGGCGGGG	TGCGGGTCC	TGCGTGGAG	CAAGACCTGG	AGGAC	1689
hdel1aln	TCACCAATGTC	CAAGTGGGG	AGCTTGCTG	GACCTTGGG	AGGCGTGGG	CGGCGGGG	TGCGGGTCC	TGCGTGGAG	CAAGACCTGG	AGGAC	1847
w80813n	CAACCAATGTC	CAAGTGGGG	AGCTTGCTG	GACCTTGGG	AGGCGTGGG	CGGCGGGG	TGCGGGTCC	TGCGTGGAG	CAAGACCTGG	AGGAC	1766

Fig. 3C

3md3	CTTGAAGATTG	TAGACCTTCA	AGGGAATTAT	GTGATATCTG	CTGCTTTCCAT	CTAGGCTGGG	GAGGCTTGA	1752
moused113n	CTTGAAGATTG	GAGACTCTAG	ATCCAATTAT	GTGATATCTG	CCGCTTTCCAT	TTATGGACGA	GAGGCTTGA	1758
hdelta1n	GAAGAAGGCG	GACTTCGACG	GGGACCACAG	CGCGGACAAAG	...AATGGCT	TCAGGCTGGG	CTACCCGACG	1949
w80813n	CTAGAAGATTG	GAGCTGGAAG	tggaactgtg	ggaatacaga	aaacacacaca	ttggactata	atctggcccc	1868
3md3	.....	.....	.....	.....	.....	.....	.....	1752
moused113n	.....	.....	.....	.....	.....	.....	.....	1758
hdelta1n	CGACACCGCC	GTGAGGGGAG	CGCACAGCAA	GGGTGACACC	AAGTGCCAGC	CCAGGGGCTC	CTCAGGGGAG	2054
w80813n	.....	gcgggggacc	atgccaggaa	agtttcccca	cagtgcacaa	agcttaggag	agaaggcgcc	1954
3md3	.....	.....	.....	.....	.....	.....	.....	1752
moused113n	.....	.....	.....	.....	.....	.....	.....	1758
hdelta1n	AGCATCTGAA	AGAAAAGGC	CGGACTCGGG	CTGTTCAACT	TCAAAAGACA	CCAAGTACCA	GTGCGGTGTAC	2159
w80813n	.....	agtgtc	ggatatcagc	gatgtgtcc	ccaggagact	ccatgtacca	gtctgtgtgt	2045
3md3	.....	.....	.....	.....	.....	.....	.....	1752
moused113n	.....	.....	.....	.....	.....	.....	.....	1758
hdelta1n	AACTGAGGTG	TAAATGGAA	GTGA	2183				
w80813n	cacggaggta	.....	.....	2055				

Fig. 3D